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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	ı
00/021 310	08/02/2001	Masasaki Kurana	01464/LH	5047	

10/21/2002

NEW YORK, NY 10017-2023

FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 767 THIRD AVENUE 25TH FLOOR

EXAMINER DOUGHERTY, THOMAS M

PAPER NUMBER ART UNIT

DATE MAILED: 10/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

. ,	Application No.	Applicant(s)
Office Action Summary	09/921,319	KURANO ET AL.
The same of the sa	Examiner	Art Unit
The MAILING DATE of this communication	Thomas M. Dougherty	2834
Period for Reply	in appears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after 50X (6) MONTHS from the mailing date of this communication - If the period of reaph yeap-field above it less than thirty (30) days - Fallure to reply within the conflict above, the maximum statutory is - Fallure to reply within the conflict above, the maximum statutory of - Any reply received by the Office later than their safe in the armed patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may a rephyone a reply within the statutory minimum of thirty (3 period will apply and will expire SIX (6) MONTHS	y be timely filed 10) days will be considered timely. S from the mailing date of this communication
1) Responsive to communication(s) filed on	08 October 2002	
	This action is non-final.	
3) Since this application is in condition for a	llowonen avent for farmer	's prospection on to the made in
closed in accordance with the practice ur Disposition of Claims	nder Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.
4)⊠ Claim(s) <u>1-17</u> is/are pending in the applica	ation	
4a) Of the above claim(s) 1-9 and 16 is/are		
5) Claim(s) is/are allowed.	manarawn norn consideration.	
6)⊠ Claim(s) 10-15 and 17 is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction ar	nd/or election requirement	
Application Papers		
9) The specification is objected to by the Exam	niner.	
10)⊠ The drawing(s) filed on <u>02 August 2001</u> is/a	ıre: a)□ accepted or b)□ objected t	to by the Examiner.
Applicant may not request that any objection t	to the drawing(s) be held in abevance	See 37 CER 1 85(a)
11) I he proposed drawing correction filed on	is: a) ☐ approved b) ☐ disar	proved by the Examiner.
If approved, corrected drawings are required in	n reply to this Office action.	
12) The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. § 11	9(a)-(d) or (f).
a)l⊠ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority document 	ents have been received.	
Certified copies of the priority documents	ents have been received in Applic	cation No
 3. Copies of the certified copies of the p application from the International * See the attached detailed Office action for a l 		
14) Acknowledgment is made of a claim for dome	estic priority under 35 LLS C & 11	9(0) (to a provide and a line at a li
 a) I he translation of the foreign language. 	provisional application has been	and a state of
Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. §§ 1	20 and/or 121.
tachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)		ary (PTO-413) Paper No(s) al Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

(a) A patent may not be obtained though the invention is not identically disclosed or described as set

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains, Patentability shall not be negatived by the manner in which the invention was made. Claims 10-15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mei (US 6,331,923) in view of Nishizawa et al. (JP 62-88382). Mei shows (fig. 1) a head supporting arrangement comprising: a base plate (18) to be fixed; a support spring for supporting a head (any of 24-26); and a microactuator device (either of 32. 34) connected to said base plate (18) and said support spring (24-26). Said support spring (24-26) is elastically coupled with said base plate (18). He shows a plurality of microactuator devices connected between said base plate (18) and said support spring (for example at 28 the actuators are connected between the spring and base). The head supported by a support spring of said head supporting arrangement to access a rotary disk, the microactuator device of said head supporting arrangement carrying out fine adjustment of a positional relationship of said head with respect to said disk. (Understood from the Background and Summary of the invention). His disk drive device uses a magnetic head. See col. 5. II, 15 and 16.

He doesn't show the microactuator device being coated with a coating film collectively with portions of said base plate and said support spring which are adjacent to said microactuator device

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Nishizawa notes coating a laminated piezoelectric device in order to prevent electrode migration. He doesn't note a superstructure including a base plate, support spring or a head for accessing a rotary disk.

It would have been obvious to one having ordinary skill in the art to coat the components of Mei at the time of his invention, such as is taught by Nishizawa, in order to prevent electrode migration. Such use also would prevent unintentional activation, short circuits, of the device due to particulates.

Claims 10-15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al. (US 6,157,522) in view of Nishizawa et al. (JP 62-88382). Murphy shows (fig. 2) a head supporting arrangement comprising: a base plate (20) to be fixed; a support spring (between 18 and the piezoelectric actuators) for supporting a head (24) microactuator device (42a, 42b) connected to said base plate (20) and said support spring. Said support spring is elastically coupled with said base plate (20). He shows a plurality of microactuator devices (42a, 42b) connected between said base plate (20) and said support spring. The head (on slider 24) supported by a support spring of said head supporting arrangement to access a rotary disk, the microactuator device of said head supporting arrangement carrying out fine adjustment of a positional relationship of said head with respect to said disk (see col. 1, II. 27-29). His disk drive device uses a magnetic head. See col. 1, II. 18 and 19.

He doesn't show the microactuator device being coated with a coating film collectively with portions of said base plate and said support spring which are adjacent to said microactuator device.

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Nishizawa notes coating a laminated piezoelectric device in order to prevent electrode migration. He doesn't note a superstructure including a base plate, support spring or a head for accessing a rotary disk.

It would have been obvious to one having ordinary skill in the art to coat the components of Murphy et al. at the time of their invention, such as is taught by Nishizawa, in order to prevent electrode migration. Such use also would prevent unintentional activation, e.g. short circuits, of the device due to particulates.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining prior art cited reads on the structural features absent the coating of the claimed invention.

Direct inquiry concerning this action to Examiner Dougherty at (703) 308-1628.

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October 16, 2002

Johnson. Const

THOMAS M. DOUGHERTY PRIMARY EXAMINER GROUP 2100

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